

Resume of Dr. Zak El-Ramly

ZE PowerGroup Inc.

1994 - Present *President*

- ZE PowerGroup is a consulting firm specialising in electricity deregulation and competitive strategy for emerging markets. Dr. El-Ramly leads a group of technical staff and seasoned industry associates in variety of comprehensive projects. The group is active in regulatory consulting and intervention, active management and implementation of electricity trading and risk management, operationalization of new competitive business functions and trade and risk software development.

Powerex

(British Columbia Power Exchange Corporation, subsidiary of BC Hydro)

1993 - 1995 *Executive Vice-president, Marketing*

- Responsible for sales, long-term contract negotiation and resource acquisition and for managing daily activities. *As one of the early executives credited for the development and structuring of Powerex and its trading operation.*

1990 - 1993 *Vice President, Development*

- Responsible for the development of corporate direction to enhance the business. *Led the developed a short-term electricity market, the Power Exchange Operation (PEO).*

BC Hydro

(British Columbia Hydro and Power Authority)

- Held several key managerial positions related to various utility functions. He lead the development of many innovative programs and policies some of which were modeled by other utilities in North America and abroad, most notably being the Power Smart program, wheeling policies and an application for a rate overhaul.

1991 - 1993 *Manager, Business Development, Resource Management*

- Development of corporate policies related to energy trade (in key areas such as rate strategy, wheeling and exchanges with other suppliers). Negotiating complex contracts. *Responsible for the development of a BC Hydro innovative system of unbundled rates referred to as the Industrial Rate Proposal*

1989 - 1991 *Manager, Policy Development, Corporate & Environmental*

- Development of corporate policies related to energy transactions. *Led the developed of one of the first leading edge wheeling policies in North America.*

1988 - 1989 *Manager, Rates & Forecasting*

- Personnel and resource management of Rates, Load Research and Forecasting groups.

1985 - 1988 Marketing Manager, Residential & Commercial Energy

- Market program development, program implementation and providing general technical support for all marketing activities. *Spearheaded the development of the damned side program known internationally as Power Smart.*

1983 - 1985 Projects Supervisor, Energy Management Division

1981 - 1985 Supervisor, HVAC Section Energy Conservation Division

1979 - 1981 Energy Services Systems Engineer, Energy Conservation

1977 - 1979 HVAC Engineer, Energy Conservation Division

Prior to Joining BC Hydro

1964 - 1977 Teaching, research, graduate studies and worked overseas.

Membership

1995-1998 Honorary President of the President of the Power Marketing Association (PMA)

1995-1996 Member of the New York Mercantile Exchange (NYMEX) Electricity Advisory Group for the development of NYMEX electricity futures

1994-1995 Executive member of the Western Systems Power Pool (WSPP)

1994-1995 Member of the Northwest Electric Light and Power Association (NELPA)

1977-present Member of the Association of Professional Engineers of British Columbia (APEBC)

1977-1995 Member American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHREA), BC Chapter. Held several executive positions and was president from 1987-1990

Regulatory Experience

Quebec

- Expert witness for James Maclaren Industries Inc. – Hydro Québec Proposal for Determining the Conditions of Establishing and Implementing Price Rates for Supplying Electricity (file R-3398-98).
- Expert Testimony of Dr. Zak El-Ramly in the Establishment of General Regulatory Principles for Setting and Applying Transmission Tariffs, to be set in Future Hearings
- Comments on the Application Relating to the Hydro Québec Proposal for Determining the Conditions of Establishing and Implementing Price Rates for Supplying Electricity

British Columbia

- Policy witness for BC Hydro, Industrial Rate Proposal 1992
- Expert witness for BC Hydro - BC Hydro/WKP Long Term Power Purchase Contract
- Intervened, participated, cross-examined and prepared final arguments in the BC Hydro WTS hearing BC Hydro.
- Intervened, participated, cross-examined and prepared final arguments on behalf of Columbia Basin Trust for WKP Transmission Applications.

- Intervened, participated, cross-examined, prepared expert testimony and prepared final arguments on behalf of Columbia Basin Trust for WKP Access Principles Application.
- Consultant to the Electro-Chemicals Industry in BC, namely BC Chemicals, CXY Chemicals and Sterling Pulp Chemicals for BC Hydro Rate 1848 – Real Time Pricing (RTP).
- California Public Utilities Commission (CPUC):
- Represented Powerex in the Hearing into the California restructuring.
- CPUC requested that Dr. El-Ramly also act as an expert witness.
- Federal Energy Regulatory Commission:
- Intervener in proceedings for the approval of the ISO and Power Exchange and IOUs' tariff filings in California
- Represented Powerex in Filings 1994/95
- National Energy Board:
- Intervener in the Sable Island Gas Pipeline hearing.

Alberta

- Represented the Cities of Calgary, Lethbridge and Red Deer on the Advisory Subcommittee on Section 42 and End-User Choice

California

- Represented Powerex in front of the California Energy Commission in 1994

List of Relevant Projects

- Development of Risk Management policies, procedures and processes
- Implementation of Risk Management (interim) System
- Operational risk assessments and audits
- Strategic product and positioning recommendations for Cal-PX
- California Market Design Hearings
- Value of service audits
- Hydroelectric upgrade, output positioning, contracting support and risk analysis
- Market assessment and acquisition support of hydroelectric facilities
- Corporate strategic positioning and contract support
- Option valuation and contract evaluations
- Review of critical transmission issues
- Trade and risk analysis and reporting
- Credit Management Policy
- Credit Risk Policy
- Expert evaluation of trade and risk software for buyers
- Lead development of deal tracking software
- Lead development of credit management software
- Lead development of a pricing database and analytics
- Lead development of integrated software trading systems
- Moderated over one hundred presentations and workshops on various aspects of competitive operation including implementation and execution of trade and risk functionality